

[See all 17 Products in Family](#)

75° Fan Angle, 400 - 500nm AR Coated, High Precision Powell Lens



Stock #70-135 **4 In Stock**

MRP ₹32,790

Price inclusive of all taxes

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-10 | ₹32,790 each |
| Qty 11-49 | ₹29,460 each |
| Need More? | Request Quote |

Product Downloads

General

Beam Shaping Lens **Type:**

Physical & Mechanical Properties

8.90 +0.00/-0.15 **Dimensions (mm):**

8.90 +0.00/-2.00 **Height (mm):**

Input Beam Diameter, 1/e² (mm):

Optical Properties

| | |
|---|--|
| N-SF6 | Substrate: □ |
| BBAR (400-500nm) | Coating: |
| 400 - 500 | Wavelength Range (nm): |
| $R_{\text{abs}} < 1.0\% @ 400 - 500\text{nm}$ | Coating Specification: |
| 1.458 | Index of Refraction (n_d): |
| 75.00 | Fan Angle (°): |

Regulatory Compliance

| | |
|---|------------------------------------|
| View | Certificate of Conformance: |
| United States | Country of Origin: |
| Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000 | Imported By: |

Product Details

- Generate Uniform, Flat-Top Profile Over Entire Line
- Fan Angles from 1° to 75° Available
- AR Coated for 400 - 500nm or 500 - 850nm

Precision Powell Lenses, also known as aspheric line generators (ALGs), spread an input beam across a uniform line with a top-hat beam profile at a specified fan angle. These Powell lenses are produced through a precision manufacturing process to ensure high contained power, uniformity, and line straightness across the entire produced line, as well as superior part-to-part consistency. They are designed for a specific input beam diameter to provide best line uniformity; larger input beams will result in higher intensity at the ends of the generated line, while smaller will create a more Gaussian distribution. Precision Powell Lenses are ideal for use in machine vision and life science applications including 3D profile measurement, PCB inspection, line-scan SD-OCT, line-scan confocal microscopy, flow cytometry, and particle analysis.